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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/644,823	08/21/2003	Boris Ginzburg	P-5762-US	6173	
49444 .7590 06/15/2007 PEARL COHEN ZEDEK LATZER, LLP 1500 BROADWAY, 12TH FLOOR			EXAM	EXAMINER	
		•	RUSSELL, WANDA Z		
NEW YORK, NY 10036	NY 10036		ART UNIT	PAPER NUMBER	
			2616		
			MAIL DATE	DELIVERY MODE	
			06/15/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)				
Office Antion Commence	10/644,823	GINZBURG ET AL.				
Office Action Summary	Examiner	Art Unit				
·	Wanda Z. Russell	2616				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timustill apply and will expire SIX (6) MONTHS from a cause the application to become AB ANDONE!	I. lety filed the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
·— ·	action is non-final.					
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-34 is/are pending in the application.	☑ Claim(s) <u>1-34</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	i) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-34</u> is/are rejected.	☑ Claim(s) <u>1-34</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examine						
10)⊠ The drawing(s) filed on <u>08 May 2003</u> is/are: a)						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)⊠ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form P1O-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F	ate				
Paper No(s)/Mail Date <u>08/21/2003</u> , and <u>11/08/2004</u> .	6) Other:					

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DETAILED ACTION

Oath/Declaration

1. It does not state that the person making the oath or declaration acknowledges the duty to disclose to the Office all information known to the person to be material to patentability as defined in 37 CFR 1.56.

INCORRECT STATEMENTS: "I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations Section 1.56(a)".

CORRECT STATEMENT should read "I acknowledge the duty to disclose information which is material to patentability of this application in accordance with Title 37, Code of Federal Regulations Section 1.56."

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

3. Claims 29-34 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The claimed article is non-statutory subject matter since it is not a process, machine, manufacture nor composition of matter; nor it is recorded on some computer-readable medium, see MPEP 2106(IV)(B)(1).

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-4, 10-14, and 17-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Guo et al. (U.S. Patent 6,937,591 B2).

For claim 1, Guo et al. teach a method (col. 7, line 26) comprising:

enabling (provide, col. 7, line 26) a packet protection mechanism (cw, col. 7, line 21) based on a value of an adaptable request (require, col. 7, line 7) to send a threshold (col. 7, line 60-61, and network monitor, 204-Fig. 2), wherein the value (col. 7, line 39) of the adaptable request is determined according to a collision rate (collision probability, col. 7, line 38) of packets (col. 7, line 16) transmitted over a wireless local area network (WLAN, col. 7, line 37).

For **claim 2**, Guo et al. teach the method of claim 1 comprising: adapting the adaptable threshold based on a collision rate parameter received from a control signal (object, col. 5, line 62 and lines 62-63, and 203-Fig. 2).

For **claim 3**, Guo et al. teach the method of claim 2, wherein adapting comprises: calculating (provide, col. 8, line 60) an average collision rate (average probability, col. 8, line 61) from the received collision rate parameter (col. 8, lines 59-63);

determining (col. 8, line 65) a transmission data rate (network characteristics, col. 8, line 65) and a control message (mapping function, col. 11, line 8) packet length; and

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adapting (apply, col. 9, line 12) the adaptable threshold based on the average collision rate, the transmission data rate and the control message packet length (col. 9, lines 11-13).

For **claim 4**, Guo et al. teach the method of claim 1, wherein enabling the packet protection mechanism comprises: enabling a request to send\clear to send (RTS\CTS) control mechanism if the length of the packet is below the adaptable threshold (col. 8, lines 6-10).

For **claims 10-14, and 17-21**, they are apparatus claims corresponding to method claims 1-4. Therefore they are rejected for the same reason above.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 5, 15, and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Guo et al. (U.S. Patent 6,937,591 B2), further in view of Cromer et al. (Pub No. US 2003/0210672 A1).

For claim 5, Guo et al. teach everything claimed as applied above (see claim 1).

However, Guo et al. fail to specifically teach the method of claim 1, wherein enabling the packet protection mechanism comprises: enabling a request to send\clear to send (RTS\CTS) control mechanism if the collision rate parameter is to indicate a possible hidden station.

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Cromer et al. teach the method wherein enabling the packet protection mechanism comprises:

enabling a request to send\clear to send (RTS\CTS) control mechanism if the collision rate parameter is to indicate a possible hidden station ([0031], lines 4-5, and lines 1-5).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine [Guo et al.] with [Cromer et al.] to obtain the invention as specified for providing better collision avoidance scheme.

For **claims 15**, **and 22**, they are apparatus claims corresponding to method claims 5. Therefore they are rejected for the same reason above.

8. Claims 6-9, 16, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Guo et al. (U.S. Patent 6,937,591 B2), further in view of Cromer et al. (Pub No. US 2003/0210672 A1), and Myles et al. (U.S. Patent 7,184,407 B1).

For **claim 6**, Guo et al. and Cromer et al. teach everything claimed as applied above (see claim 1 and 5).

However, they fail to specifically teach the method of claim 5, further comprising: detecting a hidden station based on reception at a visible station of one control messages without another control message of the request to send\clear to send (RTS\CTS) control mechanism or reception of acknowledgment frames.

Myles et al. teach the method of claim 5, further comprising:

detecting (col. 5, line 38) a hidden station (hidden node, col. 5, line 37) based on reception at a visible station of one control messages (ACK, col. 5, line 39) without

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another control message (a DATA frame, col. 5, line 40) of the request to send\clear to send (RTS\CTS) (col. 5, line 50) control mechanism or reception of acknowledgment frames (col. 5, line 50).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine [Guo et al.] with [Cromer et al.], and [Myles et al.] to obtain the invention as specified for automatic hidden station detection.

For **claim 7**, Guo et al., Cromer et al., and Myles et al. teach everything claimed as applied above (see claim 1, 5, and 6). In addition, Cromer et al. teach the method of claim 6, further comprising:

adding (report, col. 2, line 38, and lines 37-39) the detected hidden station to a list.

For **claim 8**, Guo et al., Cromer et al., and Myles et al. teach everything claimed as applied above (see claim 1, 5, 6, and 7). In addition, Cromer et al. teach the method of claim 7, comprising:

removing (invoke hidden node avoidance, Abstract, line 13) the hidden station from the list when both control messages of the request to send\clear to send (RTS\CTS) control mechanism from the hidden station are received at the visible station.

For **claim 9**, Guo et al., Cromer et al., and Myles et al. teach everything claimed as applied above (see claim 1, 5, 6, and 7). In addition, Cromer et al. teach the method of claim 7, comprising:

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disabling (take action, col. 6, line 63, and lines 60-63) the request to send\clear to send (RTS\CTS) control mechanism by adapting the value of an adaptable request to send a threshold if the list is empty.

For **claims 16, and 23,** they are apparatus claims corresponding to method claims 6. Therefore they are rejected for the same reason above.

- 9. For **claims 24-28**, they are apparatus claims corresponding to method claims1-9. Therefore they are rejected for the same reason above.
- **10.** For **claims 29-34**, they are article claims corresponding to method claims 1-9. Therefore they are rejected for the same reason above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wanda Z. Russell whose telephone number is (571) 270-1796. The examiner can normally be reached on Monday-Thursday 9:00-6:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao can be reached on (571) 272-3174. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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